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NOTICE OF ALLOWANCE AND FEE(S) DUE

23995

7590

05/21/2008

RABIN & Berdo, PC 1101 14TH STREET, NW SUITE 500 WASHINGTON, DC 20005

EXAMINER				
LE, DAVID D				
ART UNIT	PAPER NUMBER			
3681				

DATE MAILED: 05/21/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/568.274	02/15/2006	Mitsuhiro Nishina	GOT236NP	3278

TITLE OF INVENTION: GEAR SHIFT CONTROL SYSTEM OF HYBRID VEHICLE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	08/21/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

appropriate. All further correspondence including the Patent, advance orders and notificatio indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, mus			
23995 RABIN & Ber 1101 14TH STR SUITE 500	ha	have its own certificate of mailing or transmission. Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the Unit States Postal Service with sufficient postage for first class mail in an envelo addressed to the Mail Stop ISSUE FEE address above, or being facsim transmitted to the USPTO (571) 273-2885, on the date indicated below.					
WASHINGTON	N, DC 20005						(Depositor's name)
							(Signature)
							(Date)
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"Fee Address" ind PTO/SB/47; Rev 03-(Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Un	ND RESIDENCE DATA less an assignee is ident th in 37 CFR 3.11. Comp	"Indication form led. Use of a Customer A TO BE PRINTED ON lifted below, no assignee	(1) the names of up or agents OR, alterna (2) the name of a sin, registered attorney or 2 registered patent at listed, no name will be THE PATENT (print or t data will appear on the T a substitute for filing a (B) RESIDENCE: (CIT	gle firm (having as a agent) and the nam torneys or agents. If the printed. Type) patent. If an assign assignment.	a member nes of up no name	r a 2to is 3entified below, the do	cument has been filed for
Please check the appropr	riate assignee category or	categories (will not be p	rinted on the patent):	Individual C	orporatio	on or other private grou	up entity 🚨 Government
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies 5. Change in Entity Status (from status indicated above)			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
_ 。 .	ns SMALL ENTITY statu	· · · · · · · · · · · · · · · · · · ·	☐ b. Applicant is no lo	onger claiming SMA	LL ENTI	ITY status. See 37 CF	R 1.27(g)(2).
NOTE: The Issue Fee an interest as shown by the	nd Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	ed from anyone other than c Office.	the applicant; a reg	istered at	torney or agent; or the	e assignee or other party in
Authorized Signature				Date			
Typed or printed name				-			
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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SUITE 500 WASHINGTON	DC 20005			3681 DATE MAILED: 05/21/200	8

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 214 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 214 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)
	10/568.274	NISHINA ET AL.
Notice of Allowability	Examiner	Art Unit
	David D. Le	3681
	David D. Le	3681
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject t	plication. If not included n will be mailed in due course. THIS
1. This communication is responsive to 13 February 2008.		
2. The allowed claim(s) is/are 9 and 15-18.		
3. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the:		
1. Certified copies of the priority documents have		
2. Certified copies of the priority documents have3. Copies of the certified copies of the priority documents	• • • • • • • • • • • • • • • • • • • •	
· · · · · · · · · · · · · · · · · · ·	cuments have been received in this	national stage application from the
International Bureau (PCT Rule 17.2(a)). * Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm	IENT of this application. itted. Note the attached EXAMINER	'S AMENDMENT or NOTICE OF
INFORMAL PATENT APPLICATION (PTO-152) which give	es reason(s) why the oath or declara	ation is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") mus		
(a) including changes required by the Notice of Draftspers	- '	-948) attached
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal F	Patent Application
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	(PTO-413),
3. Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Da 7.	te ment/Comment
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	8. ⊠ Examiner's Stateme	ent of Reasons for Allowance
of Biological Material	9.	

Application/Control Number: 10/568,274 Page 2

Art Unit: 3681

DETAILED ACTION

1. This is the second Office action on the merits of Application No. 10/568,274, filed on 15 February 2006. Claims 9 and 15-18 are pending.

Documents

- 2. The following documents have been received and filed as part of the patent application:
 - Information Disclosure Statement, received on 02/15/06

Allowable Subject Matter

- 3. Claims 9 and 15-18 are allowed.
- 4. The following is an examiner's statement of reasons for allowance:

Claim 9:

The prior art of record fails to show or render obvious a gearshift control system comprising a determining means, a clutch disconnection means, a neutral position setting means, a mode selecting means, and a gear setting means, as recited in claim 9; specifically, wherein, when the request to the vehicle-starting gear position exists in the vehicle stationary state, the clutch disconnection means disconnects the clutch and the mode selecting means operates the rotating electric machine in the power generating mode to decrease the rotational speed of the input shaft until the rotational speed of the input shaft reaches the region of the synchronizing rotational speed in the vicinity of a zero value after the clutch disconnection means disconnects the clutch.

Application/Control Number: 10/568,274 Page 3

Art Unit: 3681

Claim 17:

The prior art of record fails to show or render obvious a gearshift control system comprising a programmable controller, as recited in claim 17; specifically, wherein, when the request to the vehicle-starting gear position exists in the vehicle stationary state, the controller is programmed to disconnect the clutch and to operate the rotating electric machine in the power generating mode to decrease the rotational speed of the input shaft until the rotational speed of the input shaft reaches the region of the synchronizing rotational speed in the vicinity of a zero value after the clutch is disconnected.

Claim 18:

The prior art of record fails to show or render obvious a gearshift control method, as recited in claim 18; specifically, wherein the method includes the steps of:

When the request of the vehicle-starting gear position exists in the vehicle stationary state, disconnecting the clutch and operating the rotating electric machine in the power generating mode to decrease the rotational speed of the input shaft until the rotational speed of the input shaft reaches the region of the synchronizing rotational speed in the vicinity of a zero value after the clutch is disconnected.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to David D. Le whose telephone number is 571-272-7092. The

examiner can normally be reached on Mon-Fri (0900-1730).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Charles A. Marmor can be reached on 571-272-7095. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/David D. Le/

Primary Examiner, Art Unit 3681

05/13/2008

ddl